

AMENDMENTS TO THE CLAIMS

1. **(Previously presented)** An isolated nucleic acid molecule comprising a polynucleotide selected from the group consisting of:

- (a) a polynucleotide encoding amino acids from 1 to 273 of SEQ ID NO:2;
- (b) a polynucleotide encoding amino acids from 2 to 273 of SEQ ID NO:2;
- (c) a polynucleotide encoding amino acids from 26 to 273 of SEQ ID NO:2; and
- (d) the polynucleotide complement of the complete polynucleotide of (a), (b), or (c).

Claims 2-4 **(Cancelled)**

5. **(Previously presented)** An isolated nucleic acid molecule comprising a polynucleotide encoding a polypeptide wherein, except for no more than 5 conservative amino acid substitutions, said polypeptide has an amino acid sequence selected from the group consisting of:

- (a) amino acids 1 to 273 of SEQ ID NO:2;
- (b) amino acids 2 to 273 of SEQ ID NO:2; and
- (c) amino acids 26 to 273 of SEQ ID NO:2

6. **(Original)** The isolated nucleic acid molecule of claim 1, which is DNA.

7. **(Previously presented)** A method of making a recombinant vector comprising inserting a nucleic acid molecule of claim 1(a), (b), or (c), into a vector in operable linkage to a promoter.

8. **(Original)** A recombinant vector produced by the method of claim 7.

9. **(Original)** A method of making a recombinant host cell comprising introducing the recombinant vector of claim 8 into a host cell.

10. **(Original)** A recombinant host cell produced by the method of claim 9.

11. **(Original)** A recombinant method of producing a polypeptide, comprising culturing the recombinant host cell of claim 10 under conditions such that said polypeptide is expressed and recovering said polypeptide.

Claims 12-35 **(Cancelled)**

36. **(Previously presented)** An isolated nucleic acid molecule comprising a polynucleotide at least 95% identical to a polynucleotide selected from the group consisting of:

(a) a polynucleotide encoding amino acids from 1 to 273 of SEQ ID NO:2;

(b) a polynucleotide encoding amino acids from 2 to 273 of SEQ ID NO:2;

(c) a polynucleotide encoding amino acids from 26 to 273 of SEQ ID NO:2; and

(d) the full polynucleotide complement of the complete polynucleotide of (a), (b), or (c).

37. **(Previously presented)** The isolated nucleic acid molecule of claim 36 wherein the polynucleotide is at least 98% identical to the polynucleotide of (a) - (d).

38. **(Previously presented)** A method of making a recombinant vector comprising inserting a nucleic acid molecule of claim 36 into a vector in operable linkage to a promoter.

39. **(Currently amended)** An isolated nucleic acid molecule comprising a polynucleotide encoding a polypeptide at least 95% identical to SEQ ID NO:2, or the full complement of the complete polynucleotide [,.] .

Claim 40. **(Cancelled)**

41. **(Previously presented)** The isolated nucleic acid molecule of claim 39 wherein the polynucleotide encodes a polypeptide at least 98% identical to SEQ ID NO:2.
42. **(Previously presented)** The isolated nucleic acid molecule of any one of claims 5, 36 or 39 wherein the polynucleotide is at least 95% identical to SEQ ID NO:1.
43. **(Previously presented)** The isolated nucleic acid molecule of any one of claims 5, 36 or 39 wherein the polynucleotide is at least 98% identical to SEQ ID NO:1.
44. **(Previously presented)** The isolated nucleic acid molecule of claim 5 wherein the polynucleotide encodes a polypeptide wherein, except for no more than 3 conservative amino acid substitutions, said polypeptide has an amino acid sequence selected from the group consisting of:
- (a) amino acids 1 to 273 of SEQ ID NO:2;
 - (b) amino acids 2 to 273 of SEQ ID NO:2; and
 - (c) amino acids 26 to 273 of SEQ ID NO:2.
45. **(Previously presented)** The isolated nucleic acid molecule of any one of claims 5, 36 or 39 wherein the nucleic acid molecule encodes a polypeptide comprising SEQ ID NO:10.
46. **(Previously presented)** The isolated nucleic acid molecule of any one of claims 5, 36 or 39 wherein the nucleic acid molecule encodes a polypeptide comprising SEQ ID NO:3.

Claims 47-48 **(Cancelled)**

49. **(Previously presented)** The isolated nucleic acid molecule of claim 5 comprising a polynucleotide encoding a polypeptide having no more than 5 conservative amino acid substitutions, wherein the conservative substitutions are selected from the group consisting of:

- (a) leucine to isoleucine;
- (b) leucine to valine;
- (c) aspartate to glutamate; and
- (d) threonine to serine.